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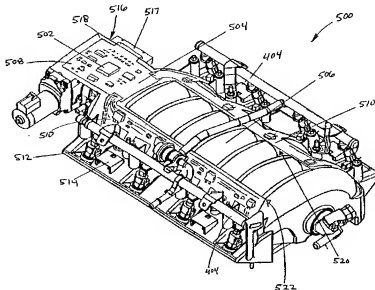
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(54) Title: INTEGRATED POWERTRAIN CONTROL SYSTEM FOR LARGE ENGINES



(57) Abstract: An integrated manifold assembly (500) for routing electrical signals in an internal combustion engine is disclosed. The assembly includes an air-intake manifold (506) for drawing fresh air into the internal combustion engine, a main circuit portion (508) fixable to the air-intake manifold (506) of the internal combustion engine, a plurality of circuit runner portions (510) extending from the main circuit portion (508) for interconnecting the main circuit portion (508) with a plurality of engine components (512, 514), and a heat sink (517) affixed to the air-intake manifold (506) and in contact with at least one of the main circuit portion (508) and the plurality of circuit runner portions (510) for dissipating heat generated in the circuit portions.

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